

**AMENDMENTS TO THE CLAIMS**

1 - 4. (Canceled)

5. (Currently amended) A superconductive microstrip filter, comprising:

an input coupling line, for receiving signals to be filtered and coupling-outputting said signals;

a plurality of U-type superconductive microstrip resonators with the same structure and dimension, for performing filtering process for said signals output by said input coupling line to obtain filtered signals in a corresponding frequency band and then coupling-outputting said ~~obtained~~-filtered signals;

an output coupling line, for coupling-outputting said filtered signals outputted by said plurality of U-type superconductive microstrip resonators[.];

wherein each of said plurality of U-type micro-superconductive microstrip resonators comprises ~~has a superconductive microstrip line bent to a~~ U-type structure having a longer side and a shorter side that are parallel and of different lengths, ~~the formed by a superconductive microstrip line, the~~ having a whole length of said superconductive microstrip line bent to said U-type structure is as long as half of the wavelength corresponding to the center frequency of a said superconductive microstrip filter constituted by said U-type superconductive microstrip resonator, and two sides of an open end of said U-type structure are different from each other in length and the two sides are parallel to each other[.];

wherein said longer sides and said shorter sides of all of said plurality of U-type superconductive microstrip resonators are arranged in parallel with each other, and wherein any two each neighboring pair U-type superconductive microstrip resonators in said plurality of U-type superconductive microstrip resonators are is arranged axisymmetrically and in parallel with each other, and for the any two neighboring U-type superconductive microstrip resonators of each of said neighboring pairs being arranged axisymmetrically and in parallel with each other,

~~having said a longer side of an open end of each resonator is closer to a symmetrical axis than said a shorter side of the open end of a shorter side of an open end of each resonator is closer to a symmetrical axis than a longer side of the open end.~~

6 - 10. (Canceled)

11. (Currently amended) The superconductive microstrip filter of claim 5, wherein the interval between ~~any two neighboring~~ each of said plurality of U-type superconductive microstrip resonators is determined in accordance with particular requirements for designing said superconductive microstrip filter.

12-15. (Canceled)

16. (Currently amended) The superconductive microstrip filter of claim 5, wherein, ~~as for~~ the U-type superconductive microstrip resonator which is closest to said input coupling line among said plurality of U-type superconductive microstrip resonators, ~~one side of said open end thereof being closer to said input coupling line~~ has a top end of said longer side or said shorter side closest to said input coupling line aligned with ~~the a~~ top portion of said input coupling line.

17-21. (Canceled)

22. (Currently amended) The superconductive microstrip filter of claim 5, wherein, ~~as for~~ the U-type superconductive microstrip resonator being which is closest to said output coupling line among said plurality of U-type superconductive microstrip resonators, ~~one side of said open end thereof being closer to said output coupling line~~ has a top end of said longer side or said shorter side closest to said output coupling line aligned with ~~the a~~ top portion of said output coupling line.

23-27. (Canceled)

28. (Currently amended) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators, wherein:

each of said plurality of U-type superconductive microstrip resonators are formed using comprises a superconductive microstrip line bent to a U-type structure having a longer side and a shorter side that are parallel and of different lengths;  
said plurality of U-type microstrip resonators are configured such that the number of poles of the microstrip filter can be increased without increasing the size of the superconductive microstrip filter;  
said length of the two sides of each of said plurality of U-type microstrip resonators are unequal such that each of said plurality of U-type microstrip resonators has a long side and a short side; and  
said plurality of U-type microstrip resonators are arranged such that the two sides of each of said plurality of U-type microstrip resonators are parallel with each other, and any two neighboring U-type superconductive microstrip resonators in said plurality of U-type superconductive microstrip resonators are arranged axisymmetrically and in parallel with each other[.]; and the superconductive microstrip line of each of said plurality of U-type superconductive microstrip resonators has a length of half of the wavelength corresponding to the center frequency of said superconductive microstrip filter.

29. (Currently amended) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 28, said superconductive microstrip filter apparatus further comprising:

an input coupling line for receiving signals to be filtered and coupling-outputting said signals; and

an output coupling line, for coupling-outputting said filtered signals outputted by said plurality of U-type superconductive microstrip resonators.

30. (Cancelled)

31. (Currently amended) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 28, wherein said longer side of each of said plurality of U-type microstrip resonators is closer to a symmetrical axis of said axisymmetrical arrangement than said shorter side.

32. (Currently amended) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 28, wherein said shorter side of each of said plurality of U-type microstrip resonators is closer to a symmetrical axis of said axisymmetrical arrangement than said longer side.

33. (Currently amended) A superconductive microstrip filter apparatus comprising a plurality of U-type superconductive microstrip resonators as recited in claim 29, wherein as ~~for the~~ U-type superconductive microstrip resonator being which is closest to said output coupling line among said plurality of U-type superconductive microstrip resonators, ~~one side of said open end thereof being closer to said output coupling line~~ has a top end of said longer side or said shorter side closest to said output coupling line aligned with the a top portion of said output coupling line.

34-36. (Cancelled)

37. (Currently amended) A superconductive microstrip filter apparatus comprising:  
a plurality of U-type superconductive microstrip resonators, wherein:  
said length of the two sides of each of said plurality of U-type superconductive  
microstrip resonators are unequal such that each of said plurality of U-

~~type microstrip resonators has a long side and a short side~~ has a longer side and a shorter side that are parallel and of different lengths; and said plurality of U-type microstrip resonators are arranged such that the two sides of each of said plurality of U-type microstrip resonators are parallel with each other, and any two neighboring U-type superconductive microstrip resonators in said plurality of U-type superconductive microstrip resonators are arranged ~~axisymmetrically and~~ in parallel with each other; and said longer sides of said plurality of U-type superconductive microstrip resonators are arranged to face toward a same direction; and an output coupling line, for coupling-outputting said filtered signals outputted by said plurality of U-type superconductive microstrip resonators, wherein: ~~as for the U-type superconductive microstrip resonator being which is~~ closest to said output coupling line among said plurality of U-type superconductive microstrip resonators, ~~one side of said open end thereof being closer to~~ said output coupling line has a top end of said longer side or said shorter side closest to said output coupling line aligned with ~~the a~~ top portion of said output coupling line.